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NOVEMBER 1990 QUARTERLY GROUND WATER SAMPLING RESULTS LIVINGSTON RAIL YARD LIVINGSTON, MONTANA

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NOVEMBER 1990 QUARTERLY GROUND WATER SAMPLING RESULTS LIVINGSTON RAIL YARD LIVINGSTON, MONTANA

Submitted to:

Montana Department of Health and Environmental Sciences
Cogswell Building
Helena, Montana 59620

Submitted by:

Burlington Northern Railroad Co.
9401 Indian Creek Parkway
Overland Park, Kansas 66201

Prepared by:

Envirocon, Inc.
101 International Way
P.O. Box 8243
Missoula, Montana 59807

Submittal Date: **February 11, 1991**

ENVIROCON, INC.

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1.0 INTRODUCTION

Burlington Northern Railroad Co., via its contractor Envirocon, Inc., completed the seventh quarterly ground water sampling round at the Livingston rail yard between November 27 and December 4, 1990. Envirocon took a total of 44 samples of the following types:

TABLE 1.0
NOVEMBER 1990 QUARTERLY GROUND WATER SAMPLES

SAMPLE TYPE	NUMBER OF SAMPLES
Monitoring and Private Wells	32
Monitoring/Private Well Duplicates	4
B Street Municipal Well	1
Publicly Owned Treatment Works (POTW)	1
Trip Blanks	4
Equipment Blanks	2
Total Number of Samples	44

The wells sampled during November 1990 are listed in Amendment 5-2 to the Interim Remedial Measures Work Plan (IRMWP). Two wells listed for quarterly sampling in Amendment 5-2 could not be sampled during November 1990. Monitoring Well 11 was not sampled due to a lack of sufficient water in the well. The Rainbow Motel Well could not be sampled because its pump had been winterized. Envirocon took samples at three locations not listed in Amendment 5-2: the POTW influent, the Geyser Trailer Court Well, and Monitoring Well 90-6.

2.0 RESULTS AND INTERPRETATIONS

Energy Laboratories, Inc. (ELI) of Billings, Montana analyzed all samples. Table 1.1 summarizes the sample and well numbers, the sampling methods and dates, and the analytical methods. Figure 1.0 shows the well locations and summarized analytical results. Appendix A contains the complete laboratory analytical results.

2.1 Chlorinated Compounds

The analytical results from most sample locations of the November quarterly ground water sampling round are consistent with previous monthly and quarterly results. Notable changes in chlorinated compound concentrations occurred at Wells L-87-3, L-88-12, LG-10, L-87-8, and 90-3. The analytical results of samples from these wells, the B Street Municipal Well, and Monitoring Well 90-6 are discussed below.

The analytical results from Well L-87-3 show an increase in tetrachloroethene (PCE) concentration from 100 parts per billion (ppb) in August 1990 to 160 ppb in November 1990. These, however, are the smallest PCE concentrations recorded, to date, from Well L-87-3.

TABLE 1.1
CORRELATION OF WELL AND SAMPLE NUMBERS
NOVEMBER 1990

SAMPLE DATE	SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE METHOD	ANALYSIS METHOD[a]
11/27/90	140101-578	Trip Blank	---	524.2
11/27/90	140101-579	L-87-1	DBP	524.2, 418.1
11/27/90	140101-580	89-3	DBP	524.2, 418.1
11/27/90	140101-581	89-4	DBP	524.2, 418.1
11/27/90	140101-582	89-2	DBP	524.2, 418.1
11/27/90	140101-583	L-87-3	DBP	524.2, 418.1, NO_3^- + NO_2^- as N
11/27/90	140101-584	LS-8	DBP	524.2, 418.1
11/27/90	140101-585	L-88-13	DBP	524.2, 418.1
11/27/90	140101-586	LS-6	DBP	524.2, 418.1
11/28/90	140101-587	Geyser T.C.	Tap	524.2, 418.1
11/28/90	140101-588	POTW	Tap	524.2, 418.1
11/28/90	140101-589	B Street	Tap	524.2, 418.1
11/28/90	140101-590	89-9	DBP	524.2, 418.1
11/28/90	140101-591	89-9 dup.	DBP	524.2, 418.1
11/28/90	140101-592	89-11	DBP	524.2, 418.1
11/28/90	140101-593	L-88-10	DBP	524.2, 418.1
11/28/90	140101-594	L-87-8	DBP	524.2, 418.1
11/28/90	140101-595	L-87-7	DBP	524.2, 418.1
11/28/90	140101-596	L-87-4	DBP	524.2, 418.1
11/28/90	140101-597	LS-11	DBP	524.2, 418.1
11/28/90	140101-598	90-3	DBP	524.2, 418.1
11/28/90	140101-599	POTW Influent	Grab	524.2, 418.1
11/29/90	140101-600	Trip Blank	---	524.2
11/29/90	140101-601	7	DBP	524.2, 418.1
11/29/90	140101-602	6	DBP	524.2, 418.1

TABLE 1.1 (cont.)

11/29/90	140101-603	5	DBP	524.2, 418.1
11/29/90	140101-604	4	DBP	524.2, 418.1
11/29/90	140101-605	4 dup.	DBP	524.2, 418.1
11/29/90	140101-606	1	DBP	524.2, 418.1
11/29/90	140101-607	LG-10	NDBP	524.2, 418.1
11/29/90	140101-608	L-88-12	DBP	524.2, 418.1
11/30/90	140101-609	Trip Blank	---	524.2
11/30/90	140101-610	2	DBP	524.2, 418.1
11/30/90	140101-611	90-6	NDBP	524.2, 418.1
11/30/90	140101-612	90-6 dup.	NDBP	524.2, 418.1
11/30/90	140101-6[illegible]9	89-7	NDBP	524.2, 418.1
11/30/90	140101-614	Equipment Blank	NDBP	524.2
11/30/90	140101-615	L-87-2	DBP	524.2, 418.1
11/30/90	140101-616	L-87-2 dup.	DBP	524.2, 418.1
12/4/90	140101-619	Trip Blank	---	524.2
12/4/90	140101-620	8	NDBP	524.2, 418.1
12/4/90	140101-621	Equipment Blank	NDBP	542.2
12/4/90	140101-622	89-6	NDBP	524.2, 418.1
12/4/90	140101-623	89-1	NDBP	524.2, 418.1

NOTES: [illegible] Refers to EPA analytical method
DBP - Dedicated bladder pump
NDBP - Non-dedicated bladder pump

The analytical results from Well L-88-12 show an increase in PCE concentration from 150 ppb in May 1990 to 320 ppb in November 1990. This increase is larger than that recorded between May and November 1989. The November 1990 PCE concentration is the largest recorded at Well L-88-12 to date.

The analytical results from Well LG-10 show 0.64 ppb of PCE. Envirocon suspects that this detection resulted from incomplete decontamination of the non-dedicated bladder pump prior to sampling. To evaluate this detection, Envirocon installed a dedicated bladder pump in Well LG-10 before the December 1990 monthly sampling round.

The analytical results from Well L-87-8 show an increase in the trichloroethene (TCE) concentration from 18 ppb in August 1990 to 38 ppb in November 1990. The increase and its magnitude are inconsistent with 1989 results. The November 1990 TCE concentration is the largest recorded at Well L-87-8 to date.

The analytical results from Well 90-3 show a decrease in the dichloroethene (DCE) concentration from 26 ppb in August 1990 to 8.7 ppb in November 1990. This well has shown declining DCE concentrations since May 1990.

The analytical results of the duplicate samples from Well 90-6, drilled on November 19, 1990, show 5.9 and 5.6 ppb of PCE. These results indicate that PCE concentrations of 300 to 400 ppb detected at Well 89-3 during previous sampling rounds are caused by a source located between Well 89-3 and Well 90-6, most likely in the northwest corner of the Electric Shop. Envirocon will continue to sample Well 90-6 quarterly and may also take soil gas samples to determine the source of the PCE detection at this well.

The analytical results from the B Street Municipal Well show no detectable concentrations of volatile organic compounds. This is consistent with previous monthly and quarterly analytical results from this well.

2.2 Total Petroleum Hydrocarbons (TPHs)

TPH concentrations from wells under the diesel plume (L-87-2, L-87-4, L-87-7, and L-87-8) range from 19.4 parts per million (ppm) to 1.2 ppm. TPH concentrations in wells outside the plume are all below 1 ppm.

2.3 Nitrates

Sample 140101-583 (Well L-87-3) was analyzed for nitrates to evaluate concentrations upgradient from the livestock-car unloading area. The analytical results show 2.74 ppm of nitrogen. A June 1990 sample taken immediately downgradient from the livestock-car unloading area, at Well 89-10, showed 3.87 ppm of nitrogen. This indicates that there is no significant increase in nitrate concentrations downgradient from the livestock-car unloading area.

3.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

Envirocon followed the QA/QC Program, outlined in the IRMWP, during the November 1990 quarterly ground water sampling round. The trip blank analytical results show no detectable concentrations of Method 524.2 analytes, as shown in Appendix A.

The two equipment blank results show the following concentrations: Sample 140101-614 - 11 ppb of chloroform, 1.0 ppb of bromodichloromethane, and 0.54 ppb of tetrachloroethene. Sample 140101-621 - 8.8 ppb of chloroform

and 2.2 ppb of tetrachloroethene. Chloroform and bromodichloromethane are common constituents in the deionized water used during equipment decontamination. Tetrachloroethene detections indicate incomplete decontamination of the non-dedicated bladder pump.

Two samples from the November sampling round were identified as outliers by the Students T Test: Sample 140101-594 (Well L-87-8) and Sample 140101-607 (Well LG-10). Envirocon's QA/QC officer concluded that the sample results were valid, following the examination of sampling documentation. Well L-87-8 is sampled with a dedicated bladder pump; therefore, cross-contamination of the sample is not a possibility. Well LG-10 was sampled with the non-dedicated bladder pump. The PCE detection at Well LG-10 may have resulted from incomplete decontamination of the pump prior to use at this well. Since the November sampling round, Envirocon installed a dedicated bladder pump in Well LG-10; therefore, concerns about cross-contamination at this well are eliminated. Further sampling at Wells L-87-8 and LG-10 will help evaluate these outliers.

APPENDIX A
LABORATORY RESULTS

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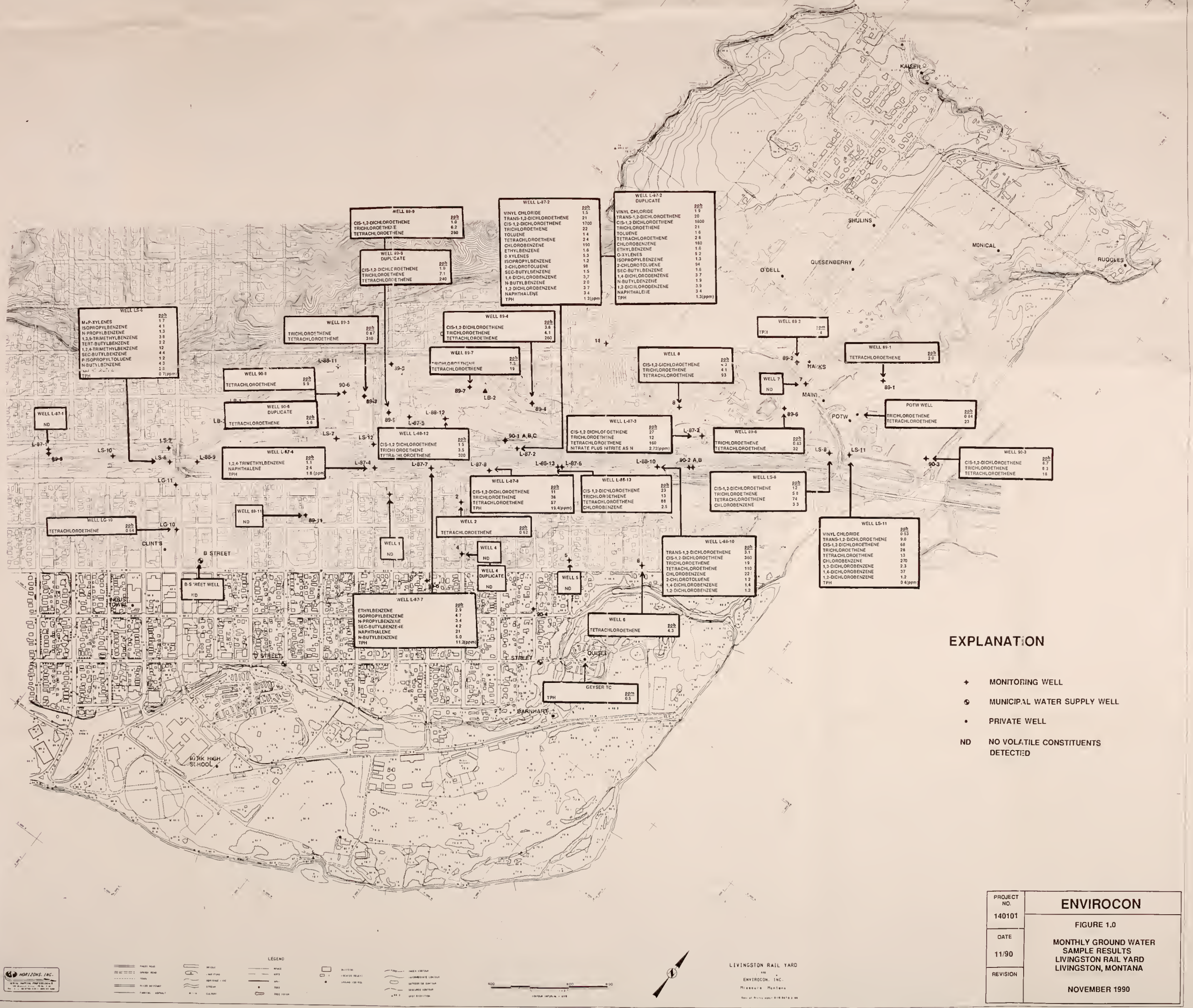
FIGURE 1.0



EXPLANATION

- ✦ MONITORING WELL
- ⊕ MUNICIPAL WATER SUPPLY WELL
- • PRIVATE WELL
- ND NO VOLATILE CONSTITUENTS DETECTED

PROJECT NO. 140101	**ENVIROCON**
DATE 11/90	FIGURE 1.0 MONTHLY GROUND WATER SAMPLE RESULTS LIVINGSTON RAIL YARD LIVINGSTON, MONTANA NOVEMBER 1990
REVISION	

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Water Analysis

PROJECT: Livingston / BN

LAB NO.	90-33348 -50
SAMPLE SUBMITTED	12/05/90
DATE REPORTED	12/19/90
SAMPLE DATE	12/04/90

Lab No.	Identification	Total Petroleum Hydrocarbons, mg/l (ppm)
90-33348	140101-620 #8 Sampled @ 1035	<0.1
90-33349	140101-622 #9-6 Sampled @ 1205	<0.1
90-33350	140101-623 #9-1 Sampled @ 1325	<0.1

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LAB NO.	90-33131 -36
SAMPLE SUBMITTED	12/03/90
DATE REPORTED	12/18/90
SAMPLE DATE	11/30/90

Lab No.	Identification	Total Petroleum Hydrocarbons, mg/l (ppm)
90-33131	140101-610 #2 Sampled @ 1150	<0.1
90-33132	140101-611 90-6 Sampled @ 1315	<0.1
90-33133	140101-612 90-6 Dup Sampled @ 1320	<0.1
90-33134	140101-613 89-7 Sampled @ 1436	<0.1
90-33135	140101-615 L-87-2 Sampled @ 1605	1.2
90-33136	140101-616 L-87-2 Dup Sampled @ 1605	1.3

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Environmental Consultants
Livingston, MT

Water Analysis

PROJECT: Livingston / BN

LAB NO.	90-33033-40
SAMPLE SUBMITTED	11/30/90
DATE REPORTED	12/12/90
SAMPLE DATE	11/29/90

Lab No.	Identification	Total Petroleum Hydrocarbons, mg/l (ppm)
90-33033	140101-601 #7 Sampled @ 1015	<0.1
90-33034	140101-602 #6 Sampled @ 1100	<0.1
90-33035	140101-603 #5 Sampled @ 1150	<0.1
90-33036	140101-604 #4 Sampled @ 1220	<0.1
90-33037	140101-605 #4 Duplicate Sampled @ 1220	<0.1
90-33038	140101-606 #1 Sampled @ 1310	<0.1
90-33039	140101-607 L6-10 Sampled @ 1425	<0.1
90-33040	140101-608 L-88-12 Sampled @ 1600	<0.1

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Water Analysis

PROJECT: Livingston / BN

LAB NO.	90-32928-32
SAMPLE SUBMITTED	11/30/90
DATE REPORTED	12/10/90
SAMPLE DATE	11/28/90

Lab No.	Identification	Total Petroleum Hydrocarbons, mg/l
90-32928	140101-595 L-87-7 Sampled @ 1525	11.2
90-32929	140101-596 L-87-4 Sampled @ 1005	1.6
90-32930	140101-597 LS-11 Sampled @ 1645	0.4
90-32931	140101-598 90-3 Sampled @ 1715	<0.1
90-32932	140101-599 POTW influent Sampled @ 1340	57.

Q.A. Review: Jan Shai

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Water Analysis

PROJECT: Livingston / BN

LAB NO.	90-32937-44
SAMPLE SUBMITTED	11/30/90
DATE REPORTED	12/13/90
SAMPLE DATE	11/28/90

Lab No.	Identification	Total Petroleum Hydrocarbons, mg/l (ppm)
90-32937	140101-587 Sampled @ 0955 (Gravel Trailer Court)	0.5
90-32938	140101-588 Sampled @ 1030 (POTW)	<0.1
90-32939	140101-589 Sampled @ 1115 (B-Street City)	<0.1
90-32940	140101-590 Sampled @ 1215 (89-9)	<0.1
90-32941	140101-591 Sampled @ 1215 (89-9 dup)	<0.1
90-32942	140101-592 Sampled @ 1320 (89-11)	<0.1
90-32943	140101-593 Sampled @ 1350 (L-88-10)	<0.1
90-32944	140101-594 Sampled @ 1440 (L-87-8)	19.4

Q.A. Review: Joe Shultz

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Water Analysis

PROJECT: Livingston / BN

LAB NO.	90-32946-53
SAMPLE SUBMITTED	11/30/90
DATE REPORTED	12/17/90
SAMPLE DATE	11/27/90

Lab No.	Identification	Total Petroleum Hydrocarbons, mg/l (ppm)
90-32946	140101-579 L-87-1 Sampled @ 10:25	<0.1
90-32947	140101-580 89-3 Sampled @ 11:25	<0.1
90-32948	140101-581 89-4 Sampled @ 12:45	<0.1
90-32949	140101-582 89-2 Sampled @ 13:55	0.4
90-32950	140101-583 L-87-3 Sampled @ 14:25	<0.1
90-32951	140101-584 LS-8 Sampled @ 15:15	<0.1
90-32952	140101-585 L-88-13 Sampled @ 15:55	<0.1
90-32953	140101-586 LS-6 Sampled @ 16:35	0.7

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Water Analysis

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	89-6	89-1	89-1 Lab Duplicate
LAB NO.	90-33349	90-33350	90-33350
SAMPLE IDENTIFICATION	140101-622	140101-623	140101-623
SAMPLE SUBMITTED	12/05/90	12/05/90	12/05/90
DATE REPORTED	12/19/90	12/19/90	12/19/90
SAMPLE DATE	12/04/90	12/04/90	12/04/90
SAMPLE TIME	1205	1325	1325
CONSTITUENT	ug/l	ug/l	ug/l
Dichlorodifluoromethane	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0
Vinyl chloride	<0.50	<0.50	<0.50
Bromomethane	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0
1,1-Dichloroethene	<0.50	<0.50	<0.50
Methylene Chloride	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50
1,1-Dichloropropene	<1.0	<1.0	<1.0
Benzene	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50
Trichloroethene	0.83	<0.50	<0.50
1,2-Dichloropropane	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0
Tetrachloroethene	32	2.0	2.2
1,3-Dichloropropane	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0

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	89-6	89-1	89-1 Lab Duplicate
LAB NO.	90-33349	90-33350	90-33350
SAMPLE IDENTIFICATION	140101-622	140101-623	140101-623
SAMPLE SUBMITTED	12/05/90	12/05/90	12/05/90
DATE REPORTED	12/19/90	12/19/90	12/19/90
SAMPLE DATE	12/04/90	12/04/90	12/04/90
SAMPLE TIME	1205	1325	1325
CONSTITUENT	ug/l	ug/l	ug/l
Ethylbenzene	<1.0	<1.0	<1.0
m+p-Xylenes	<1.0	<1.0	<1.0
o-Xylenes	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0
2-Chlorotoluene	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0
4-Chlorotoluene	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<0.50	<0.50	<0.50
n-Butylbenzene	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0
Hexachlorobutadiene	<1.0	<1.0	<1.0
Naphthalene	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

Q.A. Review: for Shadrin

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Water Analysis

PROJECT: Livingston / BN

LAB NO.	90-33346	90-33347	90-33348
SAMPLE IDENTIFICATION	140101-619	140101-621	140101-620
SAMPLE SUBMITTED	12/05/90	12/05/90	12/05/90
DATE REPORTED	12/19/90	12/19/90	12/19/90
SAMPLE DATE	12/04/90	12/04/90	12/04/90
SAMPLE TIME	0900	1110	1035
CONSTITUENT	ug/l	ug/l	ug/l
Dichlorodifluoromethane	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0
Vinyl chloride	<0.50	<0.50	<0.50
Bromomethane	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0
1,1-Dichloroethene	<0.50	<0.50	<0.50
Methylene Chloride	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	4.3
Chloroform	<1.0	8.8	<1.0
Bromochloromethane	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50
1,1-Dichloropropene	<1.0	<1.0	<1.0
Benzene	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50
Trichloroethene	<0.50	<0.50	4.1
1,2-Dichloropropane	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0
Tetrachloroethene	<0.50	2.2	93
1,3-Dichloropropane	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0

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ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

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ENVIROCON, Inc.
Livingston, MT

Water Analysis

PROJECT: Livingston/BN

LAB NO.	90-33346	90-33347	90-33348
SAMPLE IDENTIFICATION	140101-619	140101-621	140101-620
SAMPLE SUBMITTED	12/05/90	12/05/90	12/05/90
DATE REPORTED	12/19/90	12/19/90	12/19/90
SAMPLE DATE	12/04/90	12/04/90	12/04/90
SAMPLE TIME	0900	1110	1035
CONSTITUENT	ug/l	ug/l	ug/l
Ethylbenzene	<1.0	<1.0	<1.0
m+p-Xylenes	<1.0	<1.0	<1.0
o-Xylenes	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0
2-Chlorotoluene	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0
4-Chlorotoluene	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<0.50	<0.50	<0.50
n-Butylbenzene	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0
Hexachlorobutadiene	<1.0	<1.0	<1.0
Naphthalene	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

Q.A. Review:

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Livingston, MT

ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

Water Analysis

PROJECT: Livingston / BN

	L-87-2	L-87-2 Dup	Duplicate
LAB NO.	90-33135	90-33136	90-33130
SAMPLE IDENTIFICATION	140101-615	140101-616	140101-614
SAMPLE SUBMITTED	12/03/90	12/03/90	12/03/90
DATE REPORTED	12/18/90	12/18/90	12/18/90
SAMPLE DATE	11/30/90	11/30/90	11/30/90
SAMPLE TIME	1605	1605	1514
CONSTITUENT	ug/l	ug/l	ug/l
Dichlorodifluoromethane	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0
Vinyl chloride	1.5	1.9	<0.50
Bromomethane	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0
1,1-Dichloroethene	<0.50	<0.50	<0.50
Methylene Chloride	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	21	20	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	1700	1800	<1.0
Chloroform	<1.0	<1.0	7.7
Bromochloromethane	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50
1,1-Dichloropropene	<1.0	<1.0	<1.0
Benzene	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50
Trichloroethene	22	21	<0.50
1,2-Dichloropropane	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	0.70
Dibromomethane	<1.0	<1.0	<1.0
Toluene	1.4	1.6	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0
Tetrachloroethene	2.4	2.8	0.36
1,3-Dichloropropane	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0
Chlorobenzene	190	180	<1.0
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0

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Livingston, Mt.

ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

Water Analysis

PROJECT: Livingston/BN

	L-87-2	L-87-2	Duplicate
LAB NO.	90-33135	90-33136	90-33130
SAMPLE IDENTIFICATION	140101-615	140101-616	140101-614
SAMPLE SUBMITTED	12/03/90	12/03/90	12/03/90
DATE REPORTED	12/18/90	12/18/90	12/18/90
SAMPLE DATE	11/30/90	11/30/90	11/30/90
SAMPLE TIME	1605	1605	1514
CONSTITUENT	ug/l	ug/l	ug/l
Ethylbenzene	1.6	1.6	<1.0
m+p-Xylenes	<1.0	<1.0	<1.0
o-Xylenes	5.3	5.2	<1.0
Styrene	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0
Isopropylbenzene	1.2	1.3	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0
2-Chlorotoluene	98	94	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0
4-Chlorotoluene	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0
sec-Butylbenzene	1.5	1.6	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	3.7	3.7	<0.50
n-Butylbenzene	2.0	1.9	<1.0
1,2-Dichlorobenzene	3.7	3.9	<1.0
1,2-Dibromo-3-Chloropropane	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0
Hexachlorobutadiene	<1.0	<1.0	<1.0
Naphthalene	3.4	3.4	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

Q.A. Review:

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ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

REC
DEC 19 1990
ENVIROCON
Livingston, MT

Water Analysis

PROJECT: Livingston / BN

	90-6	90-6 Dup	89-7
LAB NO.	90-33132	90-33133	90-33134
SAMPLE IDENTIFICATION	140101-611	140101-612	140101-613
SAMPLE SUBMITTED	12/03/90	12/03/90	12/03/90
DATE REPORTED	12/18/90	12/18/90	12/18/90
SAMPLE DATE	11/30/90	11/30/90	11/30/90
SAMPLE TIME	1315	1320	1436
CONSTITUENT	ug/l	ug/l	ug/l
Dichlorodifluoromethane	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0
Vinyl chloride	<0.50	<0.50	<0.50
Bromomethane	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0
1,1-Dichloroethene	<0.50	<0.50	<0.50
Methylene Chloride	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50
1,1-Dichloropropene	<1.0	<1.0	<1.0
Benzene	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50
Trichloroethene	<0.50	<0.50	1.8
1,2-Dichloropropane	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0
Tetrachloroethene	5.9	5.6	19
1,3-Dichloropropane	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0

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Livingston, Mt.

ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

Water Analysis

PROJECT: Livingston/BN

	90-6	90-6 Resample	89-7
LAB NO.	90-33132	90-33133	90-33134
SAMPLE IDENTIFICATION	140101-611	140101-612	140101-613
SAMPLE SUBMITTED	12/03/90	12/03/90	12/03/90
DATE REPORTED	12/18/90	12/18/90	12/18/90
SAMPLE DATE	11/30/90	11/30/90	11/30/90
SAMPLE TIME	1315	1320	1436
CONSTITUENT	ug/l	ug/l	ug/l
Ethylbenzene	<1.0	<1.0	<1.0
m+p-Xylenes	<1.0	<1.0	<1.0
o-Xylenes	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0
2-Chlorotoluene	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0
4-Chlorotoluene	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<0.50	<0.50	<0.50
n-Butylbenzene	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0
Hexachlorobutadiene	<1.0	<1.0	<1.0
Naphthalene	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

Q.A. Review: for Stalker

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Livingston, Mt.

ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

Water Analysis

PROJECT: Livingston / BN

	Trip Blank	Equip Blank	#2
LAB NO.	90-33129	90-33130	90-33131
SAMPLE IDENTIFICATION	140101-609	140101-614	140101-610
SAMPLE SUBMITTED	12/03/90	12/03/90	12/03/90
DATE REPORTED	12/18/90	12/18/90	12/18/90
SAMPLE DATE	11/30/90	11/30/90	11/30/90
SAMPLE TIME	0848	1514	1150
CONSTITUENT	ug/l	ug/l	ug/l
Dichlorodifluoromethane	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0
Vinyl chloride	<0.50	<0.50	<0.50
Bromomethane	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0
1,1-Dichloroethene	<0.50	<0.50	<0.50
Methylene Chloride	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0
Chloroform	<1.0	11	<1.0
Bromochloromethane	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50
1,1-Dichloropropene	<1.0	<1.0	<1.0
Benzene	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50
Trichloroethene	<0.50	<0.50	<0.50
1,2-Dichloropropane	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0
Tetrachloroethene	<0.50	0.54	0.62
1,3-Dichloropropane	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0

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ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

Water Analysis

PROJECT: Livingston/BN

LAB NO.	90-33129	90-33130	90-33131
SAMPLE IDENTIFICATION	140101-609	140101-614	140101-610
SAMPLE SUBMITTED	12/03/90	12/03/90	12/03/90
DATE REPORTED	12/18/90	12/18/90	12/18/90
SAMPLE DATE	11/30/90	11/30/90	11/30/90
SAMPLE TIME	0848	1514	1150
CONSTITUENT	ug/l	ug/l	ug/l
Ethylbenzene	<1.0	<1.0	<1.0
m+p-Xylenes	<1.0	<1.0	<1.0
o-Xylenes	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0
2-Chlorotoluene	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0
4-Chlorotoluene	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<0.50	<0.50	<0.50
n-Butylbenzene	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0
Hexachlorobutadiene	<1.0	<1.0	<1.0
Naphthalene	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

Q.A. Review:

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ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

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ENVIRONMENTAL SERVICES
Livingston, MT

Water Analysis

PROJECT: Livingston / BN

	#1	LG-10	L-88-12
LAB NO.	90-33038	90-33039	90-33040
SAMPLE IDENTIFICATION	140101-606	140101-607	140101-608
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/12/90	12/12/90	12/12/90
SAMPLE DATE	11/29/90	11/29/90	11/29/90
SAMPLE TIME	1310	1425	1600
CONSTITUENT	ug/l	ug/l	ug/l
Dichlorodifluoromethane	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0
Vinyl chloride	<0.50	<0.50	<0.50
Bromomethane	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0
1,1-Dichloroethene	<0.50	<0.50	<0.50
Methylene Chloride	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	1.5
Chloroform	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50
1,1-Dichloropropene	<1.0	<1.0	<1.0
Benzene	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50
Trichloroethene	<0.50	<0.50	3.5
1,2-Dichloropropane	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0
Tetrachloroethene	<0.50	0.64	320
1,3-Dichloropropane	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0

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ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

REC
DEC 1
ENVIROCON, Inc.
Livingston, MT

Water Analysis

PROJECT: Livingston/BN

#1 LG-10 L-88-12

LAB NO.	90-33038	90-33039	90-33040
SAMPLE IDENTIFICATION	140101-606	140101-607	140101-608
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/12/90	12/12/90	12/12/90
SAMPLE DATE	11/29/90	11/29/90	11/29/90
SAMPLE TIME	1310	1425	1600
CONSTITUENT	ug/l	ug/l	ug/l
Ethylbenzene	<1.0	<1.0	<1.0
m+p-Xylenes	<1.0	<1.0	<1.0
o-Xylenes	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0
2-Chlorotoluene	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0
4-Chlorotoluene	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<0.50	<0.50	<0.50
n-Butylbenzene	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0
Hexachlorobutadiene	<1.0	<1.0	<1.0
Naphthalene	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

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ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

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ENVIROCON, Inc.
Livingston, Mt.

Water Analysis

L-88-12
Lab Duplicate

PROJECT: Livingston / BN

LAB NO.	90-33040
SAMPLE IDENTIFICATION	140101-608
SAMPLE SUBMITTED	11/30/90
DATE REPORTED	12/12/90
SAMPLE DATE	11/29/90
SAMPLE TIME	1600
CONSTITUENT	ug/l
Dichlorodifluoromethane	<1.0
Chloromethane	<1.0
Vinyl chloride	<0.50
Bromomethane	<1.0
Chloroethane	<1.0
Trichlorofluoromethane	<1.0
1,1-Dichloroethene	<0.50
Methylene Chloride	<1.0
trans-1,2-Dichloroethene	<1.0
1,1-Dichloroethane	<1.0
2,2-Dichloropropane	<1.0
cis-1,2-Dichloroethene	1.3
Chloroform	<1.0
Bromochloromethane	<1.0
1,1,1-Trichloroethane	<0.50
Carbon Tetrachloride	<0.50
1,1-Dichloropropene	<1.0
Benzene	<0.50
1,2-Dichloroethane	<0.50
Trichloroethene	2.9
1,2-Dichloropropane	<1.0
Bromodichloromethane	<1.0
Dibromomethane	<1.0
Toluene	<1.0
1,1,2-Trichloroethane	<1.0
Tetrachloroethene	290
1,3-Dichloropropane	<1.0
Dibromochloromethane	<1.0
1,2-Dibromoethane	<1.0
Chlorobenzene	<1.0
1,1,1,2-Tetrachloroethane	<1.0

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ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

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ENVIROCON, Inc.
Livingston, MT

Water Analysis

PROJECT: Livingston/BN

L-88-12
Duplicate

LAB NO.	90-33040
SAMPLE IDENTIFICATION	140101-608
SAMPLE SUBMITTED	11/30/90
DATE REPORTED	12/12/90
SAMPLE DATE	11/29/90
SAMPLE TIME	1600
CONSTITUENT	ug/l
Ethylbenzene	<1.0
m+p-Xylenes	<1.0
o-Xylenes	<1.0
Styrene	<1.0
Bromoform	<1.0
Isopropylbenzene	<1.0
1,1,2,2-Tetrachloroethane	<1.0
Bromobenzene	<1.0
1,2,3-Trichloropropane	<1.0
n-Propylbenzene	<1.0
2-Chlorotoluene	<1.0
1,3,5-Trimethylbenzene	<1.0
4-Chlorotoluene	<1.0
tert-Butylbenzene	<1.0
1,2,4-Trimethylbenzene	<1.0
sec-Butylbenzene	<1.0
p-Isopropyltoluene	<1.0
1,3-Dichlorobenzene	<1.0
1,4-Dichlorobenzene	<0.50
n-Butylbenzene	<1.0
1,2-Dichlorobenzene	<1.0
1,2-Dibromo-3-Chloropropane	<1.0
1,2,4-Trichlorobenzene	<1.0
Hexachlorobutadiene	<1.0
Naphthalene	<1.0
1,2,3-Trichlorobenzene	<1.0
cis-1,3-Dichloropropene	<1.0
trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

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LIVINGSTON MT 59047

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Water Analysis

PROJECT: Livingston / BN

	#5	#4	#4 Dup
LAB NO.	90-33035	90-33036	90-33037
SAMPLE IDENTIFICATION	140101-603	140101-604	140101-605
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/12/90	12/12/90	12/12/90
SAMPLE DATE	11/29/90	11/29/90	11/29/90
SAMPLE TIME	1150	1220	1220
CONSTITUENT	ug/l	ug/l	ug/l
Dichlorodifluoromethane	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0
Vinyl chloride	<0.50	<0.50	<0.50
Bromomethane	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0
1,1-Dichloroethene	<0.50	<0.50	<0.50
Methylene Chloride	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50
1,1-Dichloropropene	<1.0	<1.0	<1.0
Benzene	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50
Trichloroethene	<0.50	<0.50	<0.50
1,2-Dichloropropane	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0
Tetrachloroethene	<0.50	<0.50	<0.50
1,3-Dichloropropane	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0

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ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

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Livingston

Water Analysis

PROJECT: Livingston/BN

	#5	#4	#4 Dup
LAB NO.	90-33035	90-33036	90-33037
SAMPLE IDENTIFICATION	140101-603	140101-604	140101-605
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/12/90	12/12/90	12/12/90
SAMPLE DATE	11/29/90	11/29/90	11/29/90
SAMPLE TIME	1150	1220	1220
CONSTITUENT	ug/l	ug/l	ug/l
Ethylbenzene	<1.0	<1.0	<1.0
m+p-Xylenes	<1.0	<1.0	<1.0
o-Xylenes	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0
2-Chlorotoluene	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0
4-Chlorotoluene	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<0.50	<0.50	<0.50
n-Butylbenzene	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0
Hexachlorobutadiene	<1.0	<1.0	<1.0
Naphthalene	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

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ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

Water Analysis

PROJECT: Livingston / BN

	Trip Blank	#7	#6
LAB NO.	90-33032	90-33033	90-33034
SAMPLE IDENTIFICATION	140101-600	140101-601	140101-602
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/12/90	12/12/90	12/12/90
SAMPLE DATE	11/29/90	11/29/90	11/29/90
SAMPLE TIME	0800	1015	1100
CONSTITUENT	ug/l	ug/l	ug/l
Dichlorodifluoromethane	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0
Vinyl chloride	<0.50	<0.50	<0.50
Bromomethane	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0
1,1-Dichloroethene	<0.50	<0.50	<0.50
Methylene Chloride	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50
1,1-Dichloropropene	<1.0	<1.0	<1.0
Benzene	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50
Trichloroethene	<0.50	<0.50	<0.50
1,2-Dichloropropane	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0
Tetrachloroethene	<0.50	<0.50	4.3
1,3-Dichloropropane	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0

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ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

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ENVIROCON
Livingston, MT

Water Analysis

PROJECT: Livingston/BN

	Trip Blank	#7	#6
LAB NO.	90-33032	90-33033	90-33034
SAMPLE IDENTIFICATION	140101-600	140101-601	140101-602
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/12/90	12/12/90	12/12/90
SAMPLE DATE	11/29/90	11/29/90	11/29/90
SAMPLE TIME	0800	1015	1100
CONSTITUENT	ug/l	ug/l	ug/l
Ethylbenzene	<1.0	<1.0	<1.0
m+p-Xylenes	<1.0	<1.0	<1.0
o-Xylenes	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0
2-Chlorotoluene	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0
4-Chlorotoluene	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<0.50	<0.50	<0.50
n-Butylbenzene	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0
Hexachlorobutadiene	<1.0	<1.0	<1.0
Naphthalene	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

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ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

DEC 1

Water Analysis

PROJECT: Livingston / BN

90-3 | POTW Influent | LS-11 Duplicate

LAB NO.	90-32931	90-32932	90-32930
SAMPLE IDENTIFICATION	140101-598	140101-599	140101-597
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/10/90	12/10/90	12/10/90
SAMPLE DATE	11/28/90	11/28/90	11/28/90
SAMPLE TIME	1715	1340	1645
CONSTITUENT	ug/l	ug/l	ug/l
Dichlorodifluoromethane	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0
Vinyl chloride	<0.50	<0.50	0.64
Bromomethane	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0
1,1-Dichloroethene	<0.50	<0.50	<0.50
Methylene Chloride	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	11
1,1-Dichloroethane	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	8.7	<1.0	72
Chloroform	<1.0	2.1	<1.0
Bromochloromethane	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50
1,1-Dichloropropene	<1.0	<1.0	<1.0
Benzene	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50
Trichloroethene	6.3	<0.50	29
1,2-Dichloropropane	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0
Toluene	<1.0	14	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0
Tetrachloroethene	18	22	16
1,3-Dichloropropane	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	280
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0

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ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

DEC 11

Water Analysis

PROJECT: Livingston/BN

	90-3	POTW Influent	LS-11 Duplicate
LAB NO.	90-32931	90-32932	90-32930
SAMPLE IDENTIFICATION	140101-598	140101-599	140101-597
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/10/90	12/10/90	12/10/90
SAMPLE DATE	11/28/90	11/28/90	11/28/90
SAMPLE TIME	1715	1340	1645
CONSTITUENT	ug/l	ug/l	ug/l
Ethylbenzene	<1.0	<1.0	<1.0
m+p-Xylenes	<1.0	3.8	<1.0
o-Xylenes	<1.0	3.2	<1.0
Styrene	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	1.4	<1.0
2-Chlorotoluene	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	3.7	<1.0
4-Chlorotoluene	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	12	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	2.6	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	2.3
1,4-Dichlorobenzene	<0.50	2.3	36
n-Butylbenzene	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	1.1
1,2-Dibromo-3-Chloropropane	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0
Hexachlorobutadiene	<1.0	<1.0	<1.0
Naphthalene	<1.0	4.9	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

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ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

DEC 1

Water Analysis

PROJECT: Livingston / BN

	L-87-7	L-87-4	LS-11
LAB NO.	90-32928	90-32929	90-32930
SAMPLE IDENTIFICATION	140101-595	140101-596	140101-597
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/10/90	12/10/90	12/10/90
SAMPLE DATE	11/28/90	11/28/90	11/28/90
SAMPLE TIME	1525	1005	1645
CONSTITUENT	ug/l	ug/l	ug/l
Dichlorodifluoromethane	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0
Vinyl chloride	<0.50	<0.50	0.53
Bromomethane	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0
1,1-Dichloroethene	<0.50	<0.50	<0.50
Methylene Chloride	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	9.0
1,1-Dichloroethane	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	68
Chloroform	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50
1,1-Dichloropropene	<1.0	<1.0	<1.0
Benzene	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50
Trichloroethene	<0.50	<0.50	28
1,2-Dichloropropane	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0
Tetrachloroethene	<0.50	<0.50	13
1,3-Dichloropropane	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	270
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0

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ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

DEC 1 1990

Water Analysis

PROJECT: Livingston/BN

L-87-7 L-87-4 LS-11

LAB NO.	90-32928	90-32929	90-32930
SAMPLE IDENTIFICATION	140101-595	140101-596	140101-597
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/10/90	12/10/90	12/10/90
SAMPLE DATE	11/28/90	11/28/90	11/28/90
SAMPLE TIME	1525	1005	1645
CONSTITUENT	ug/l	ug/l	ug/l
Ethylbenzene	2.9	<1.0	<1.0
m+p-Xylenes	<1.0	<1.0	<1.0
o-Xylenes	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0
Isopropylbenzene	4.7	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0
n-Propylbenzene	3.4	<1.0	<1.0
2-Chlorotoluene	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0
4-Chlorotoluene	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	1.1	<1.0
sec-Butylbenzene	4.2	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	2.3
1,4-Dichlorobenzene	<0.50	<0.50	37
n-Butylbenzene	5.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	1.2
1,2-Dibromo-3-Chloropropane	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0
Hexachlorobutadiene	<1.0	<1.0	<1.0
Naphthalene	21	2.4	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

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DEC 14 1990

ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

Water Analysis

PROJECT: Livingston / BN

	L-88-10	L-87-8	89-9 Duplicate
LAB NO.	90-32943	90-32944	90-32940
SAMPLE IDENTIFICATION	140101-593	140101-594	140101-590
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/13/90	12/13/90	12/13/90
SAMPLE DATE	11/28/90	11/28/90	11/28/90
SAMPLE TIME	1350	1440	1215
CONSTITUENT	ug/l	ug/l	ug/l
Dichlorodifluoromethane	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0
Vinyl chloride	<0.50	<0.50	<0.50
Bromomethane	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0
1,1-Dichloroethene	<0.50	<0.50	<0.50
Methylene Chloride	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	3.1	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	380	11	11.3
Chloroform	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50
1,1-Dichloropropene	<1.0	<1.0	<1.0
Benzene	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50
Trichloroethene	1.9	38	6.2
1,2-Dichloropropane	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0
Tetrachloroethene	110	57	240
1,3-Dichloropropane	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0
Chlorobenzene	22	<1.0	<1.0
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0

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ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

Water Analysis

PROJECT: Livingston/BN

	L-88-10	L-87-8	89-9 Sol Duplicate
LAB NO.	90-32943	90-32944	90-32940
SAMPLE IDENTIFICATION	140101-593	140101-594	140101-590
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/13/90	12/13/90	12/13/90
SAMPLE DATE	11/28/90	11/28/90	11/28/90
SAMPLE TIME	1350	1440	1215
CONSTITUENT	ug/l	ug/l	ug/l
Ethylbenzene	<1.0	<1.0	<1.0
m+p-Xylenes	<1.0	<1.0	<1.0
o-Xylenes	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0
2-Chlorotoluene	1.2	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0
4-Chlorotoluene	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	1.4	<0.50	<0.50
n-Butylbenzene	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	1.2	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0
Hexachlorobutadiene	<1.0	<1.0	<1.0
Naphthalene	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

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ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

Water Analysis

PROJECT: Livingston / BN

	89-9	89-9 dup	89-11
LAB NO.	90-32940	90-32941	90-32942
SAMPLE IDENTIFICATION	140101-590	140101-591	140101-592
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/13/90	12/13/90	12/13/90
SAMPLE DATE	11/28/90	11/28/90	11/28/90
SAMPLE TIME	1215	1215	1320
CONSTITUENT	ug/l	ug/l	ug/l
Dichlorodifluoromethane	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0
Vinyl chloride	<0.50	<0.50	<0.50
Bromomethane	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0
1,1-Dichloroethene	<0.50	<0.50	<0.50
Methylene Chloride	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	1.0	1.0	<1.0
Chloroform	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50
1,1-Dichloropropene	<1.0	<1.0	<1.0
Benzene	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50
Trichloroethene	6.2	7.1	<0.50
1,2-Dichloropropane	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0
Tetrachloroethene	280	240	<0.50
1,3-Dichloropropane	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0

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ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

Water Analysis

PROJECT: Livingston/BN

	89-9	89-9 dup	89-11
LAB NO.	90-32940	90-32941	90-32942
SAMPLE IDENTIFICATION	140101-590	140101-591	140101-592
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/13/90	12/13/90	12/13/90
SAMPLE DATE	11/28/90	11/28/90	11/28/90
SAMPLE TIME	1215	1215	1320
CONSTITUENT	ug/l	ug/l	ug/l
Ethylbenzene	<1.0	<1.0	<1.0
m+p-Xylenes	<1.0	<1.0	<1.0
o-Xylenes	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0
2-Chlorotoluene	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0
4-Chlorotoluene	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<0.50	<0.50	<0.50
n-Butylbenzene	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0
Hexachlorobutadiene	<1.0	<1.0	<1.0
Naphthalene	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

Q.A. Review:

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DEC 14 1990

ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

Water Analysis

PROJECT: Livingston / BN

	Rivel Trailer Court	POTW	B-Street City
LAB NO.	90-32937	90-32938	90-32939
SAMPLE IDENTIFICATION	140101-587	140101-588	140101-589
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/13/90	12/13/90	12/13/90
SAMPLE DATE	11/28/90	11/28/90	11/28/90
SAMPLE TIME	0955	1030	1115
CONSTITUENT	ug/l	ug/l	ug/l
Dichlorodifluoromethane	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0
Vinyl chloride	<0.50	<0.50	<0.50
Bromomethane	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0
1,1-Dichloroethene	<0.50	<0.50	<0.50
Methylene Chloride	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50
1,1-Dichloropropene	<1.0	<1.0	<1.0
Benzene	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50
Trichloroethene	<0.50	0.84	<0.50
1,2-Dichloropropane	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0
Tetrachloroethene	<0.50	23	<0.50
1,3-Dichloropropane	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0

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ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

Water Analysis

PROJECT: Livingston/BN

Quad Trailer Court | POTW | B-Street City

LAB NO.	90-32937	90-32938	90-32939
SAMPLE IDENTIFICATION	140101-587	140101-588	140101-589
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/13/90	12/13/90	12/13/90
SAMPLE DATE	11/28/90	11/28/90	11/28/90
SAMPLE TIME	0955	1030	1115
CONSTITUENT	ug/l	ug/l	ug/l
Ethylbenzene	<1.0	<1.0	<1.0
m+p-Xylenes	<1.0	<1.0	<1.0
o-Xylenes	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0
2-Chlorotoluene	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0
4-Chlorotoluene	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<0.50	<0.50	<0.50
n-Butylbenzene	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0
Hexachlorobutadiene	<1.0	<1.0	<1.0
Naphthalene	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

Q.A. Review: Joe Skogis

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Livingston, MT

ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

Water Analysis

PROJECT: Livingston / BN

	LS-8	L-88-13	LS-6
LAB NO.	90-32951	90-32952	90-32953
SAMPLE IDENTIFICATION	140101-584	140101-585	140101-586
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/17/90	12/17/90	12/17/90
SAMPLE DATE	11/27/90	11/27/90	11/27/90
SAMPLE TIME	15:15	15:55	16:35
CONSTITUENT	ug/l	ug/l	ug/l
Dichlorodifluoromethane	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0
Vinyl chloride	<0.50	<0.50	<0.50
Bromomethane	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0
1,1-Dichloroethene	<0.50	<0.50	<0.50
Methylene Chloride	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	12	23	<1.0
Chloroform	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50
1,1-Dichloropropene	<1.0	<1.0	<1.0
Benzene	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50
Trichloroethene	5.6	13	<0.50
1,2-Dichloropropane	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0
Tetrachloroethene	74	68	<0.50
1,3-Dichloropropane	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0
Chlorobenzene	3.3	2.5	<1.0
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0

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PO BOX 1154
LIVINGSTON MT 59047

Water Analysis

PROJECT: Livingston \ BN

	LS-8	L-88-13	LS-6
LAB NO.	90-32951	90-32952	90-32953
SAMPLE IDENTIFICATION	140101-584	140101-585	140101-586
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/17/90	12/17/90	12/17/90
SAMPLE DATE	11/27/90	11/27/90	11/27/90
SAMPLE TIME	15:15	15:55	16:35
CONSTITUENT	ug/l	ug/l	ug/l
Ethylbenzene	<1.0	<1.0	<1.0
m+p-Xylenes	<1.0	<1.0	1.7
o-Xylenes	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	4.1
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	1.3
2-Chlorotoluene	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	3.6
4-Chlorotoluene	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	2.2
1,2,4-Trimethylbenzene	<1.0	<1.0	12
sec-Butylbenzene	<1.0	<1.0	4.4
p-Isopropyltoluene	<1.0	<1.0	1.2
1,3-Dichlorobenzene	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<0.50	<0.50	<0.50
n-Butylbenzene	<1.0	<1.0	4.3
1,2-Dichlorobenzene	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0
Hexachlorobutadiene	<1.0	<1.0	<1.0
Naphthalene	<1.0	<1.0	5.8
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

QA Review: Jon Stahler

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LIVINGSTON MT 59047

Water Analysis

PROJECT: Livingston / BN

	L-87-3	L-87-3 Duplicate
LAB NO.	90-32950	90-32950
SAMPLE IDENTIFICATION	140101-583	140101-583
SAMPLE SUBMITTED	11/30/90	11/30/90
DATE REPORTED	12/17/90	12/17/90
SAMPLE DATE	11/27/90	11/27/90
SAMPLE TIME	14:25	14:25
	mg/l (ppm)	mg/l (ppm)
Nitrate plus Nitrite as N	2.72	2.70

QA Review: _____

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Livingston, Mt.

ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

Water Analysis

L-87-3

PROJECT: Livingston / BN

Duplicate

LAB NO.	90-32950
SAMPLE IDENTIFICATION	140101-583
SAMPLE SUBMITTED	11/30/90
DATE REPORTED	12/17/90
SAMPLE DATE	11/27/90
SAMPLE TIME	14:25
CONSTITUENT	ug/l
Dichlorodifluoromethane	<1.0
Chloromethane	<1.0
Vinyl chloride	<0.50
Bromomethane	<1.0
Chloroethane	<1.0
Trichlorofluoromethane	<1.0
1,1-Dichloroethene	<0.50
Methylene Chloride	<1.0
trans-1,2-Dichloroethene	<1.0
1,1-Dichloroethane	<1.0
2,2-Dichloropropane	<1.0
cis-1,2-Dichloroethene	26
Chloroform	<1.0
Bromochloromethane	<1.0
1,1,1-Trichloroethane	<0.50
Carbon Tetrachloride	<0.50
1,1-Dichloropropene	<1.0
Benzene	<0.50
1,2-Dichloroethane	<0.50
Trichloroethene	13
1,2-Dichloropropane	<1.0
Bromodichloromethane	<1.0
Dibromomethane	<1.0
Toluene	<1.0
1,1,2-Trichloroethane	<1.0
Tetrachloroethene	150
1,3-Dichloropropane	<1.0
Dibromochloromethane	<1.0
1,2-Dibromoethane	<1.0
Chlorobenzene	<1.0
1,1,1,2-Tetrachloroethane	<1.0

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LIVINGSTON MT 59047

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ENVIROCON, Inc.
Livingston, MT

L-87-3

Water Analysis

PROJECT: Livingston \ BN

	Duplicate
LAB NO.	90-32950
SAMPLE IDENTIFICATION	140101-583
SAMPLE SUBMITTED	11/30/90
DATE REPORTED	12/17/90
SAMPLE DATE	11/27/90
SAMPLE TIME	14:25
CONSTITUENT	ug/l
Ethylbenzene	<1.0
m+p-Xylenes	<1.0
o-Xylenes	<1.0
Styrene	<1.0
Bromoform	<1.0
Isopropylbenzene	<1.0
1,1,2,2-Tetrachloroethane	<1.0
Bromobenzene	<1.0
1,2,3-Trichloropropane	<1.0
n-Propylbenzene	<1.0
2-Chlorotoluene	<1.0
1,3,5-Trimethylbenzene	<1.0
4-Chlorotoluene	<1.0
tert-Butylbenzene	<1.0
1,2,4-Trimethylbenzene	<1.0
sec-Butylbenzene	<1.0
p-Isopropyltoluene	<1.0
1,3-Dichlorobenzene	<1.0
1,4-Dichlorobenzene	<0.50
n-Butylbenzene	<1.0
1,2-Dichlorobenzene	<1.0
1,2-Dibromo-3-Chloropropane	<1.0
1,2,4-Trichlorobenzene	<1.0
Hexachlorobutadiene	<1.0
Naphthalene	<1.0
1,2,3-Trichlorobenzene	<1.0
cis-1,3-Dichloropropene	<1.0
trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

QA Review: _____

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Water Analysis

PROJECT: Livingston / BN

	89-4	89-2	L-87-3
LAB NO.	90-32948	90-32949	90-32950
SAMPLE IDENTIFICATION	140101-581	140101-582	140101-583
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/17/90	12/17/90	12/17/90
SAMPLE DATE	11/27/90	11/27/90	11/27/90
SAMPLE TIME	12:45	13:55	14:25
CONSTITUENT	ug/l	ug/l	ug/l
Dichlorodifluoromethane	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0
Vinyl chloride	<0.50	<0.50	<0.50
Bromomethane	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0
1,1-Dichloroethene	<0.50	<0.50	<0.50
Methylene Chloride	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	3.8	<1.0	27
Chloroform	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50
1,1-Dichloropropene	<1.0	<1.0	<1.0
Benzene	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50
Trichloroethene	4.1	<0.50	12
1,2-Dichloropropane	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0
Tetrachloroethene	260	<0.50	160
1,3-Dichloropropane	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0

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ENVIROCON, Inc.
Livingston, Mt.

Water Analysis

PROJECT: Livingston \ BN

	89-4	89-2	L-87-3
LAB NO.	90-32948	90-32949	90-32950
SAMPLE IDENTIFICATION	140101-581	140101-582	140101-583
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/17/90	12/17/90	12/17/90
SAMPLE DATE	11/27/90	11/27/90	11/27/90
SAMPLE TIME	12:45	13:55	14:25
CONSTITUENT	ug/l	ug/l	ug/l
Ethylbenzene	<1.0	<1.0	<1.0
m+p-Xylenes	<1.0	<1.0	<1.0
o-Xylenes	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0
2-Chlorotoluene	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0
4-Chlorotoluene	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<0.50	<0.50	<0.50
n-Butylbenzene	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0
Hexachlorobutadiene	<1.0	<1.0	<1.0
Naphthalene	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

QA Review: _____

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Livingston, Mt.

ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

Water Analysis

PROJECT: Livingston / BN

	Lwr Bank	L-87-1	89-3
LAB NO.	90-32945	90-32946	90-32947
SAMPLE IDENTIFICATION	140101-578	140101-579	140101-580
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/17/90	12/17/90	12/17/90
SAMPLE DATE	11/27/90	11/27/90	11/27/90
SAMPLE TIME	9:00	10:25	11:25
CONSTITUENT	ug/l	ug/l	ug/l
Dichlorodifluoromethane	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0
Vinyl chloride	<0.50	<0.50	<0.50
Bromomethane	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0
1,1-Dichloroethene	<0.50	<0.50	<0.50
Methylene Chloride	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50
1,1-Dichloropropene	<1.0	<1.0	<1.0
Benzene	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50
Trichloroethene	<0.50	<0.50	0.67
1,2-Dichloropropane	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0
Tetrachloroethene	<0.50	<0.50	310
1,3-Dichloropropane	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0

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PO BOX 1154
LIVINGSTON MT 59047

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ENVIROCON, Inc.
Livingston, Mt.

Water Analysis

PROJECT: Livingston \ BN

LAB NO.	90-32945	90-32946	90-32947
SAMPLE IDENTIFICATION	140101-578	140101-579	140101-580
SAMPLE SUBMITTED	11/30/90	11/30/90	11/30/90
DATE REPORTED	12/17/90	12/17/90	12/17/90
SAMPLE DATE	11/27/90	11/27/90	11/27/90
SAMPLE TIME	9:00	10:25	11:25
CONSTITUENT	ug/l	ug/l	ug/l
Ethylbenzene	<1.0	<1.0	<1.0
m+p-Xylenes	<1.0	<1.0	<1.0
o-Xylenes	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0
2-Chlorotoluene	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0
4-Chlorotoluene	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<0.50	<0.50	<0.50
n-Butylbenzene	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0
Hexachlorobutadiene	<1.0	<1.0	<1.0
Naphthalene	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

QA Review:

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Livingston, Mt.

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PO BOX 1154
LIVINGSTON MT 59047

WATER VOLATILE SURROGATE RECOVERY

PROJECT: Livingston/BN

SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#
90-33346	84	95	100
90-33347	81	98	110
90-33348	92	99	110
90-33349	100	100	97
90-33350	97	100	100
90-33350 dup	120	97	100
		QC LIMITS	
S1 (TOL) = Toluene-d8		(80-120)	
S2 (BFB) = Bromofluorobenzene		(80-120)	
S3 (DCE) = 1,2-Dichloroethane-d4		(80-120)	

Column to be used to flag recovery values with an asterisk
* Values outside of contract required QC limits

Q.A. Review: Joe Strubi

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WATER VOLATILE SURROGATE RECOVERY

PROJECT: Livingston/BN

SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#
90-33129	94	100	94
90-33130	100	91	100
90-33131	100	90	100
90-33132	120	90	97
90-33133	110	95	96
90-33134	100	93	100
90-33135	93	89	100
90-33136	100	88	99

	QC LIMITS
S1 (TOL) = Toluene-d8	(80-120)
S2 (BFB) = Bromofluorobenzene	(80-120)
S3 (DCE) = 1,2-Dichloroethane-d4	(80-120)

Column to be used to flag recovery values with an asterisk

* Values outside of contract required QC limits

Q.A. Review: _____

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WATER VOLATILE SURROGATE RECOVERY

PROJECT: Livingston/BN

SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#
90-33032	87	99	97
90-33033	99	100	110
90-33034	100	100	110
90-33035	80	100	110
90-33036	86	100	110
90-33037	100	100	100
90-33038	88	100	110
90-33039	97	100	90
90-33040	87	100	120
90-33040 dup	100	100	100

	QC LIMITS
S1 (TOL) = Toluene-d8	(80-120)
S2 (BFB) = Bromofluorobenzene	(80-120)
S3 (DCE) = 1,2-Dichloroethane-d4	(80-120)

Column to be used to flag recovery values with an asterisk

* Values outside of contract required QC limits

Q.A. Review: for Shubert

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WATER VOLATILE SURROGATE RECOVERY

PROJECT: Livingston / BN

SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#
90-32945	96	100	92
90-32946	100	100	89
90-32947	100	100	89
90-32948	110	100	87
90-32949	99	110	87
90-32950	100	100	90
90-32951	100	100	81
90-32952	100	110	83
90-32953	100	110	82
90-32950 Dup	97	100	110
	QC LIMITS		
S1 (TOL) = Toluene-d8	(80-120)		
S2 (BFB) = Bromofluorobenzene	(80-120)		
S3 (DCE) = 1,2-Dichloroethane-d4	(80-120)		

Column to be used to flag recovery values with an asterisk

* Values outside of contract required QC limits

QA Review: for Stubbs

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PO BOX 1154
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WATER VOLATILE SURROGATE RECOVERY

PROJECT: Livingston/BN

SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#
90-32937	110	110	85
90-32938	100	100	83
90-32939	110	110	82
90-32940	93	110	83
90-32940 dup	110	90	100
90-32941	100	91	120
90-32942	99	100	110
90-32943	97	100	100
90-32944	100	100	98

	QC LIMITS
S1 (TOL) = Toluene-d8	(80-120)
S2 (BFB) = Bromofluorobenzene	(80-120)
S3 (DCE) = 1,2-Dichloroethane-d4	(80-120)

Column to be used to flag recovery values with an asterisk

* Values outside of contract required QC limits

Q.A. Review

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WATER VOLATILE SURROGATE RECOVERY

PROJECT: Livingston/BN

SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#
90-32928	110	110	92
90-32929	94	110	91
90-32930	86	98	110
90-32930 dup	110	92	100
90-32931	110	98	100
90-32932	120	100	95
		QC LIMITS	
S1 (TOL) = Toluene-d8		(80-120)	
S2 (BFB) = Bromofluorobenzene		(80-120)	
S3 (DCE) = 1,2-Dichloroethane-d4		(80-120)	

Column to be used to flag recovery values with an asterisk
* Values outside of contract required QC limits

Q.A. Review:

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Quality Assurance-Spiked Analysis

PROJECT: Livingston / BN

Lab No. 90-33131 was spiked with the following constituents with these results.

Constituent	Spike Amount, ug/l	P (%)	Range for P (%)
1,1-Dichloroethene	5.0	81	60-140
Benzene	5.0	100	60-140
Trichloroethene	5.0	87	60-140
Toluene	5.0	120	60-140
Chlorobenzene	5.0	120	60-140

P = Percent recovery measured.

Q.A. Review: _____

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QUALITY ASSURANCE - SPIKED ANALYSIS

PROJECT: Livingston / BN

Constituent	Spike Amount, ug/l	P(%)	Range for P(%
1,1-Dichloroethene	5.0	68	60-140
Benzene	5.0	110	60-140
Trichloroethene	5.0	92	60-140
Toluene	5.0	83	60-140
Chlorobenzene	5.0	130	60-140

Lab No. 90-32949 was spiked with the above constituents with these results.

p=percent recovery measured

QA Review: _____

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ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

Quality Assurance-Spiked Analysis

Lab No. 90-32942 was spiked with the following constituents with these results:

Constituent	Spike Amount ug/l	P (%)	Range for P (%)
1,1-Dichloroethene	5.0	82	60-140
Benzene	5.0	100	60-140
Trichloroethene	5.0	85	60-140
Toluene	5.0	110	60-140
Chlorobenzene	5.0	110	60-140

P = Percent recovery measured.

Q.A. Review: _____

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Quality Assurance-Spiked Analysis

Lab No. 90-32931 was spiked with the
following constituents with these results.

Constituent	Spike Amount ug/l	P (%)	Range for P (%)
1,1-Dichloroethene	5.0	110	60-140
Benzene	5.0	120	60-140
Trichloroethene	5.0	110	60-140
Toluene	5.0	140	60-140
Chlorobenzene	5.0	140	60-140

P = Percent recovery measured.

Q.A. Review: Jon Stubbs

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ENVIROCON, Inc.
Livingston, MT

ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

WATER SUPPLY QUALITY CONTROL SAMPLE

PROJECT: Livingston / BN

Constituent	True Value, ug/l	P(%)	Range for P(%)
Benzene	17.9	92	60-140
Carbon tetrachloride	16.7	86	60-140
1,4-Dichlorobenzene	9.0	79	60-140
1,1,1-Trichloroethane	5.6	102	60-140
Bromochloromethane	6.6	112	60-140
2-Chlorotoluene	4.2	81	60-140
1,2-Dibromoethane	6.1	118	60-140
cis-1,2-Dichloroethene	7.6	104	60-140
Methylene chloride	5.6	134	60-140
1,1,1,2-Tetrachloroethane	1.9	95	60-140
p-Xylenes	7.5	87	60-140

This EPA Quality Control sample was analyzed with your lab no.s 90-32945 thru 90-32953 with these results.

p=percent recovery measured

QA Review: for Stanley